

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-18. (Canceled)

19. (Presently Amended) An isolated mutant SPE-C toxin comprising acid substitutions at aspartic acid-12 of SEQ ID NO: 2, tyrosine-15 of SEQ ID NO: 2, tyrosine-17 of SEQ ID NO: 2, histidine-35 of SEQ ID NO: 2, or asparagine-38 of SEQ ID NO: 2.

20. (Presently Amended) An isolated mutant SPE-C toxin comprising amino acid substitution at aspartic acid-12 of SEQ ID NO: 2.

21. (Presently Amended) The isolated mutant SPE-C toxin of claim 20, comprising substitution of alanine for aspartic acid-12 of SEQ ID NO: 2.

22. (Presently Amended) An isolated mutant SPE-C toxin comprising amino acid substitution at asparagine-38 of SEQ ID NO: 2.

23. (Presently Amended) The isolated mutant SPE-C toxin of claim 22, comprising substitution of aspartic acid for asparagine-38 of SEQ ID NO: 2.

24. (Presently Amended) An isolated mutant SPE-C toxin comprising amino acid substitutions at tyrosine-15 of SEQ ID NO: 2 and at asparagine-38 of SEQ ID NO: 2.

25. (Presently Amended) The isolated mutant SPE-C toxin of claim 24, comprising substitutions of serine or alanine for tyrosine-15 of SEQ ID NO: 2 and aspartic acid for asparagine-38 of SEQ ID NO: 2.

26. (Presently Amended) The isolated mutant SPE-C toxin of claim 24, comprising substitutions of serine for tyrosine-15 of SEQ ID NO: 2 and serine for asparagine-38 of SEQ ID NO: 2.

27. (Presently Amended) The isolated mutant SPE-C toxin of claim 24, further comprising amino acid substitution at histidine-35 of SEQ ID NO: 2.

28. (Presently Amended) The isolated mutant SPE-C toxin of claim 27, comprising substitutions of alanine for tyrosine-15 of SEQ ID NO: 2, alanine for histidine-35 of SEQ ID NO: 2, and aspartic acid for asparagine-38 of SEQ ID NO: 2.

29. (Presently Amended) An isolated mutant SPE-C toxin comprising amino acid substitutions at tyrosine-17 of SEQ ID NO: 2 and at asparagine-38 of SEQ ID NO: 2.

30. (Presently Amended) The isolated mutant SPE-C toxin of claim 29, comprising substitutions of serine or alanine for tyrosine-17 of SEQ ID NO: 2 and aspartic acid for asparagine-38 of SEQ ID NO: 2.

31. (Presently Amended) The isolated mutant SPE-C toxin of claim 29, comprising substitutions of serine for tyrosine-17 of SEQ ID NO: 2 and serine for asparagine-38 of SEQ ID NO: 2.

32. (Presently Amended) An isolated mutant SPE-C toxin comprising amino acid substitutions at tyrosine-15 of SEQ ID NO: 2, at histidine-35 of SEQ ID NO: 2, and at asparagine-38 of SEQ ID NO: 2.

33. (Presently Amended) The isolated mutant SPE-C toxin of claim 32, comprising substitutions of alanine for tyrosine-15 of SEQ ID NO: 2, alanine for histidine-35 of SEQ ID NO: 2, and aspartic acid for asparagine-38 of SEQ ID NO: 2.

34. (Presently Amended) An isolated mutant SPE-C toxin comprising amino acid substitutions at aspartic acid-12 of SEQ ID NO: 2, at tyrosine-15 of SEQ ID NO: 2, at tyrosine-17 of SEQ ID NO: 2, at histidine-35 of SEQ ID NO: 2, or at asparagine-38 of SEQ ID NO: 2, or at up to three of these specifically named amino acids.

35-38. (Canceled)

39. (Presently Amended) The isolated mutant SPE-C toxin of claim 34, comprising substitutions of alanine for tyrosine-15 of SEQ ID NO: 2.

40-92. (Canceled)